

10.K Use of Transpiration to Reduce Heat Losses.

(1) Without transpiration:

$$Q_r = -4\pi k r^2 \frac{dT}{dr}$$

Integrating over the shell thickness we get:

$$Q_r = +4\pi k (T_2 - T_1) / \left(\frac{1}{r_2} - \frac{1}{r_1} \right)$$

$$= 4\pi (0.02) (30 + 362) / \left(\frac{1}{1} - \frac{1}{0.5} \right)$$

$$-Q_r = 99 \text{ Btu hr}^{-1}$$

(2) With transpiration:

From Eq. 10.5-30:

$$Q_r = 4\pi k R_0 (T_1 - T_\infty) / \left(e^{(R_0/kR)(1-\kappa)} - 1 \right)$$

From an energy balance:

$$-Q_r = w_p \lambda = 4\pi k \lambda R_0 / \hat{C}_p$$

We now combine these two expressions and rearrange the result to obtain:

$$\begin{aligned} -Q_r &= \frac{\kappa R}{(1-\kappa)} \left(\frac{4\pi k \lambda}{\hat{C}_p} \right) \ln \left[\frac{(T_1 - T_\infty) \hat{C}_p}{\lambda} + 1 \right] \\ &= \left(\frac{0.5 \times 1}{0.5} \right) \left(\frac{4\pi \times 0.02 \times 91.7}{0.22} \right) \ln \left[\frac{(392)(0.22)}{91.7} + 1 \right] \\ &= 69.5 \text{ Btu hr}^{-1} \end{aligned}$$

10.L Frictionless Processes in an Ideal Gas.

a. Substituting $\hat{C}_p = p\hat{V}/T$ for $\hat{C}_v$ we may write:

$$p \hat{C}_p (\underline{v} \cdot \nabla T) = k \nabla^2 T - p(\nabla \cdot \underline{v}) + \frac{p}{T} (\underline{v} \cdot \nabla T)$$

The ^{last term of this} expression may be rearranged with the aid of the ideal-gas law to give:

$$\begin{aligned} (p/T)(\underline{v} \cdot \nabla T) &= p(\underline{v} \cdot \nabla(p/p)) \\ &= p \left(\frac{1}{p} (\underline{v} \cdot \nabla p) - \frac{p}{p^2} (\underline{v} \cdot \nabla p) \right) \\ &= (\underline{v} \cdot \nabla p) - \frac{p}{p} ((\nabla \cdot p \underline{v}) - p(\nabla \cdot \underline{v})) \end{aligned}$$

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